

Work Order ID 149902

August 09, 2016 3:07:38 PM

149902*Undrilled as per email attached*

Page 1

Item ID: D119-646-241 Accept
Revision ID: URF 15-560
Item Name: Replacement Skidtube with Run-on Landing Wearplates, Fits LH or RH

N9000040100Setup Start ***NS1***Stop ***NS2***Start Date: 8/9/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 8/31/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: *SA* Date: *AUG 09 2016* Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3887-045	D								
IIN-D119-646	C								

101

0.00

101

QC

Quality Control

Memo

0.00

PULL FROM STOCK D119-646-241 B118477 X1

MASK AREA ACCORDING TO THE ATTACHED DIAGRAM

REMOVE PAINT IN THAT AREA

TOUCH UP ALODINE IF NEEDED

CLEAN AREA

1 0 0 a

DART		1270 ABERDEEN ST. HAWKESBURY ON. CANADA K6A 1K7 TEL 1-613-632-5200 www.dartaerospace.com	
PATENT	US #5735484 / CA #2222184 / EURO #0828655		
P.N.	D119-646-241	CHG	CHG003
DESC	Replacement Skidtube STD	STC	SR02024SE
LOT	B118477	STC	
MODEL	Agusta A119/AW119MKII	STC	
TC APPROVAL # 09-89		MADE IN CANADA	
		02729-4	

122

QC5- Inspect part completeness to step on W/O 0.00

122

QC

Quality Control

Memo

0.00

*DAS
16
9-89**16/08/27*

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 149902

August 09, 2016 3:07:38 PM

149902

Page 2

Item ID: D119-646-241 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: URF 15-560 Stop ***NS2***
Item Name: Replacement Skidtube with Run-on Landing Wearplates, Fits LH or RH
Start Date: 8/9/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 8/31/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
260	Identify as per dwg & Stock Location: <u>W/O</u>	0.00							
260									
Packaging	Memo	0.00							
Packaging	ADD NEW RED LABELS								
	Location : FG084								
270	QC21- Final Inspection - Work Order Release	0.00							
270									
QC	Memo	0.02							
Quality Control									

DAS 36 9-89
16/08/2016
DAS 21 9-89
AUG 31 2016
DAS 21 9-89
AUG 31 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	OTHER :							
Misidentified	☐	Past Due								

Picklist Print

August 09, 2016 3:07:43 PM

Page 1

Work Order ID: 149902

149902

Parent Item: D119-646-241

D119-646-241

Parent Item Name: Replacement Skidtube with Run-on Landing Wearplates, Fits LH or RH

Start Date: 8/9/2016

Required Date: 8/31/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP RevA: New issue DD verified by:EC
12.11.05 (DEOD3887-B-1)(ecn 12-675) DD verf:JLM IPP REV:C 13.03.20
per chg003 ECN13-534 DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D119-646-241		Manufactured	No				Each	0.0000		1			

D119-646-241

Replacement Skidtube with Run-on Landing Wearplates, Fits LH or RH

118477

Copy

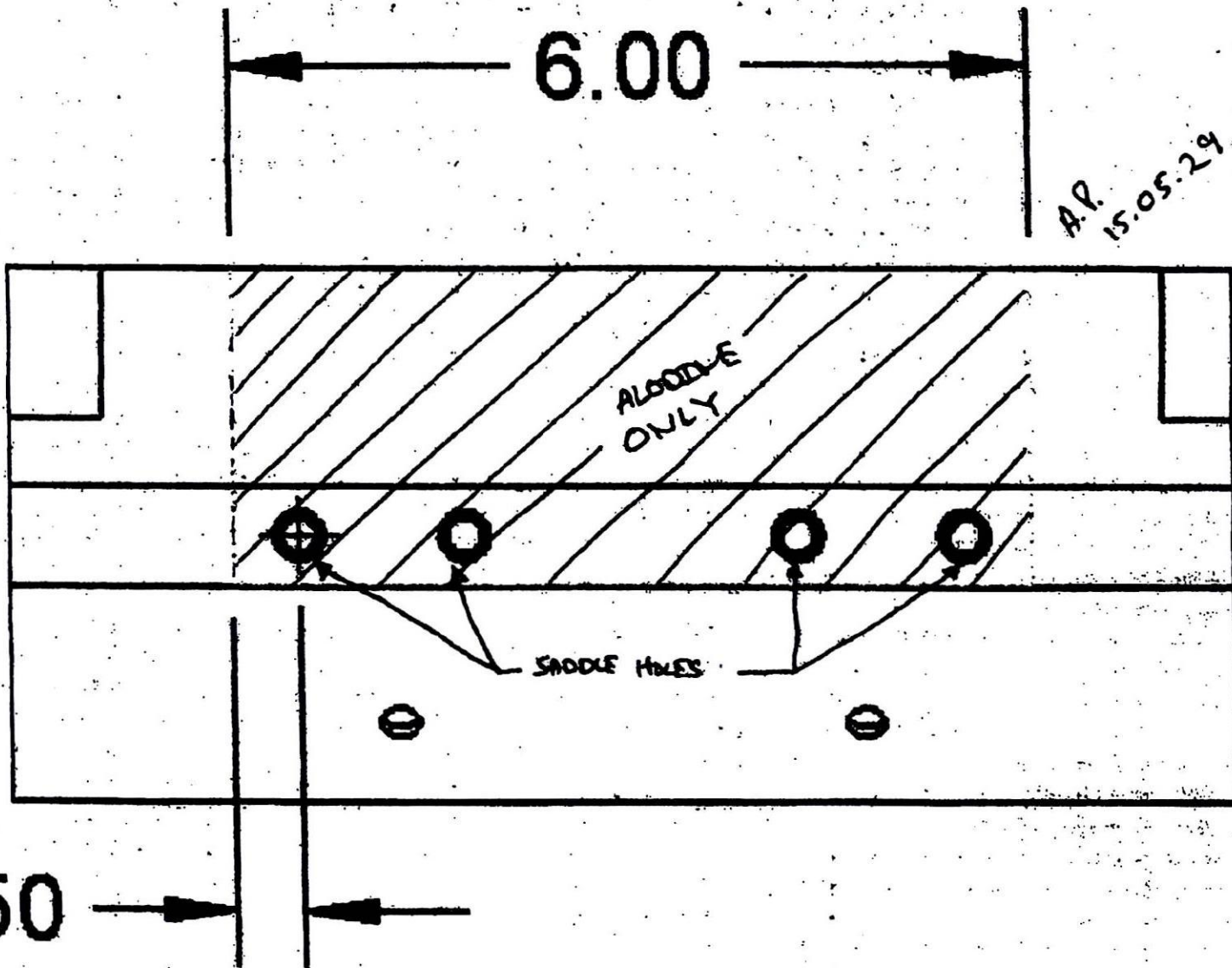
6.00

A.P.
15.05.29

ALODINE
ONLY

SADDLE HILLES

0.50



DQA:

Date: 09/22/2016

QA Closed

Date: SEP 09 2016

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only

DART
AEROSPACE

Work Order: 1478290

Part No: D119-646-041

NCR No.

DISPOSITION

Rework ☒Scrap ☐Use-as-is ☐Suspected Unapproved ☐

AGAINST DEPARTMENT/PROCESS

Skid-tube

Machining ☐Thermoforming ☐Large Fab ☐Cross tube ☐Small Fab ☐Finishing ☐Composite ☐Water Jet ☐Prod. Eng. Coord. ☐Rec/Store/Packaging ☐Supplier ☐Engineering ☒Quality ☐Other ☐

Date: 16/5/16

Step #:

200

QTY Effective:

0

Description Work Order Deviation

No powder coat on saddle region per customer request.

Disposition

Acceptable per attached masking instructions

MRB (QSI042) Approval

DAS

12

9-89

16/6/17

Completed By

DAS

15

9-89

Lead hand / Supervisor

Approval Verification

DAS

9

9-89

16-08-23

QA Coordinator

Approval

9-89

16-08-23

Root Cause

Environment ☐Design ☒Doc/Data ☐Equip/Tooling ☐Handling/Pre ☐Material ☐Internal Transport ☐Tribal Knowledge ☐LOA ☐Substation ☐Past Expiry Date ☐Misidentified ☐No Re-verification ☐Operator ☐Offset/Setup ☐Supplier ☐Training ☐Use for Testing ☐Poor Information ☐Rushing ☐Product Improvement ☐Process Improvement ☐Manufacturing Process ☐Past Due ☐Pressure/Forced ☐Bending ☐Centre Not Concentric ☐Cracks ☐Crimp/Kink/Ripple/Wave ☐Cuffs ☐Crushing ☐Heat Treat ☐Wave/Twist in Tube ☐Marks/Chatter ☐Temperature/Cure ☐Set-up ☐BOM/Route ☐Broken/Damage/Defect ☐Inspection Incomplete/Unqualified ☐Contamination ☐Countersink ☐Cut Too Short ☐Instructions Incomplete/Unclear ☐Drill Holes ☐

FAULT CATEGORY

Power Loss/Surge ☐Folio/Program ☐Grain ☐Weld ☐Wrong Stock Pulled ☐Out of Sequence ☐Off-set ☐Mislabeled ☐Fit/Function ☐Misaligned/off center ☐Positioned Wrong ☐Outside Dimensions ☐Over/Under tolerance ☐Part Incorrect ☐Part Lost/Missing ☐Part Moved ☐Drawing ☐Finish ☒Misread ☐Turning Sequence ☐

OTHER:

Customer

Shirley Hay

From: Sosnovsky Jake <jake.sosnovsky@leonardocompany.com>
Sent: August 18, 2016 9:32 AM
To: Caitlin Crooks
Subject: RE: August 2016 DART POBM

Caitlin,

Please ship them undrilled.

Thanks,
Jake Sosnovsky

From: Caitlin Crooks [mailto:ccrooks@dartaero.com]
Sent: Thursday, August 18, 2016 9:17 AM
To: Sosnovsky Jake
Subject: FW: August 2016 DART POBM

Hi Jake,

Just following up to see if your team had a chance to review my highlighted request below.

Please let me know.

Thank you,
Caitlin Crooks

DART AEROSPACE
T 1 613 632-3336 > 289
E ccrooks@dartaero.com
Toll Free: 1-800-556-4166
www.dartaerospace.com



From: Caitlin Crooks
Sent: Monday, August 15, 2016 11:47 AM
To: 'Sosnovsky Jake' <jake.sosnovsky@leonardocompany.com>
Subject: FW: August 2016 DART POBM

Good Morning Jake,

Please see the below. As discussed on the phone last week, we are currently at our capacity for each month until December and certain months we will be exceeding capacity with 5 per month. Below is a capture of how many landing gears we are manufacturing each month to meet your delivery dates.

SEPT	5
OCT	4
NOV	4 + 1 (possibly, RFQ from Anita last week)
DEC	2